Work Ordo <i>July-27-12 9:46</i>		17		*877	717*	,					Page 1
Item ID: Revision ID: Item Name:	D412-702-315 Harness Assemb	•		Accept	*N900	040	100)* s	etup Sta	1.7	IS1* IS2*
Start Date: Required Date: Reference:		Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Approvals:		MLJ	Date: 12/07/2	Tooling: SPC (Y/N):		ate:		. R	tun Sta Sto	!/	IR1* IR2*
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp.
Draw Nbr	Revisi	ion Nbr							•		
DSI 9511	A										
100				0.00							(1)
100 Small Fab		Memo Assemble a	is per dwg ICA D412-702	0.00 p.49		•		_/X_		·	
110	(QC5- Inspect part comp	eleteness to step on W/O	0.00							
110 QC Quality Control		Мето		0.00	17/08/14 15			4)		
120				0.00	· · · · · · · · · · · · · · · · · · ·	,				\	
120				•	<u>~</u>						
Packaging		Memo	4 para ava:	0.00	.				1 -1	Γ	
Packaging		Identify wi CHG001 Location:_ PPP Rev:	th P/N & CHG# and pack f	or shipping as per PPP C	412-702-315		9	K 15	1/08/	15	

Part No.													DQA:	Date	e: _	
Work Order: Part No.	NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	ANCE / UP	DATE		·		_	
Rework Skid-tube Crosstube Mater Jet Engineerir Engineerir Quality Crosstube NCR No. Skid-tube Skid-tube Small Fab Prod. Eng. Coor. Quality Quality Composite Store/Packaging Other Cause Date Step Qty Or Non-conformance Chief Eng Description Date Verification QC Inspiration													QA Closed:	Date	e:	
Rework Scrap Use-as-is Water Jet Engineering Machining Small Fab Prod. Eng. Coor. Quality Machining Small Fab Composite Supplier Other Supplier Other Doc/Data Equip/Tooling Operator Setup Under Indicated In	Work Orde	or.					DISPOSITION				AGAINS [*]	T DE	PARTMENT	PROCESS		
Cause Date Step Qty or Non-conformance Chief Eng Description Date Verification QC Inspiratory Operator Date Setup Operator Date Setup Other D	Part f	٠ . No.					Scrap Use-as-is		Machining Small Fab Prod. Eng. Coor. Thermoforming Finishing Rec/Store/Packaging							Engineering Quality Other
Doc/Data Laquip/Tooling Operator Material Setup Operator Ovalized Pressure/For Ovalized Operator Oper	Root	Ī				Descri	ption of work order update		Initial	Ac	tion		Sign &			
Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved Unapproved Unapproved Denote Not Concentric to O/S BoM/Route Hardware Over/Under tolerance Temperature Octable Crushed/Crimped Burrs Instructions Incomplete Part Lost/Missing Wrong Stock Heat Treat Countersink Mislabeled Positioned Wrong	Cause		Date	Step	Qty		or Non-conformance	Ch	nief Eng	Desc	ription		Date	Verification	\perp	QC Inspector
Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Contamination Contersink Contersink Centre Not Concentric to O/S Bond Bend Grain Covalized Cover/Under tolerance Cove	Equip/Tooling Operator Material Setup Other Process Supplier Training															
Bending Bend Grain Ovalized Pressure/For Centre Not Concentric to O/S BOM/Route Hardware Over/Under tolerance Temperature Cracks Broken/Damaged Inspection Incomplete Part Incorrect Weld Crushed/Crimped. Burrs Instructions Incomplete/Unclear Part Lost/Missing Wrong Stock Cuffs Contamination Maintenance Part Moved Heat Treat Countersink Mislabeled Positioned Wrong								AUI	LT CATE	GORY						
Heat Treat Countersink Mislabeled Positioned Wrong	Landi		Bending Centre No Cracks Crushed/		ntric to (o/s	Bend BOM/Route Broken/Damaged Burrs		Hardwa Inspecti Instruct	on Incomplete ions Incomplete/	Unclear		Over/Under Part Incorred Part Lost/Mi	ct		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
Ripples in Bend Drill Holes Offset			Heat Trea	n Strip in	Tube		Countersink Cut Too Short		Mislabe Misread	led			Positioned V			Other

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ordo <i>July-27-12 9:46</i>		717 %		*877	717*							Page
Item ID: Revision ID:	D412-702-3			Accept	*N900	040	100)* s	Setup	Start Stop	I VI	S1*
Item Name: Start Date: Required Date: Reference:	Harness Asser 7/27/12 8/17/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					"IVI	S2*
Approvals:	Process Pla	ın:,	Date:	Tooling:	Da	ate:		F	Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
130		QC21- Final Inspection	Work Order Release	0.00								_
130 QC		Memo		0.00							•	112
Quality Control										J(2-	08-1	4

												DQA:	D	ate:	
NCR:	Yes	/ No				WORK ORDER NON-C	COI	NFORM	MANCE / UP	DATE				•	
					" "						_	QA Closed:	<u> </u>	ate:	
Work Orde	er:					DISPOSITION				AGAINST DI	EP.	ARTMENT/	PROCESS		
Part f	- - No.					Rework Scrap Use-as-is Work Order Update		f Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Je d. Eng. Coo e/Packagin Supplie	r g	Engineering Quality Other	
Root					Descri	otion of work order update		Initial	Ac	tion	T	Sign &			
Cause		Date	Step	Qty		or Non-conformance	Cr	nief Eng	Desc	ription		Date	Verificati	on	QC Inspector
Doc/Data							Τ				T				
Equip/Tooling								j			1				
Operator															
Material															
Setup											١				
Other											ı				
Process															
Supplier															
Training										•					
Unapproved						·									
						F	AUI	LT CATE	GORY			•			
Landi	ng G	ear				General		_							
	∐ [€]	Bending				Bend		Grain		L	_[Ovalized		<u> </u>	Pressure/Forced
	Щ	Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	re		_[Over/Under	tolerance	L	Temperature/Cure
	Шσ	Cracks				Broken/Damaged	L	Inspecti	on Incomplete		ال	Part Incorred	:t		Weld
	Ц	Crushed/0	Crimped.			Burrs		Instruct	ions Incomplete/	'Unclear	ال	Part Lost/Mi	ssing		Wrong Stock Pulled
	Ц̈́	Cuffs				Contamination		Mainte	nance		ال	Part Moved			
	╚	leat Trea	t			Countersink		Mislabe	led]	Positioned V	Vrong		_
		nspection	n Strip in	Tube		Cut Too Short		Misread	!	Γ		Power Loss/	Surge		Other
		innles in	Rend			Drill Holas		Offcot		<u> </u>					

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

July-27-12 9:46:38 AM

Work Order ID:

87717

Parent Item:

D412-702-315

Parent Item Name:

Harness Assembly

Start Date: 7/27/12

Required Date: 8/17/12

Start Qty: 1.00

Required Qty: 1:00

Comments:	IPP Rev:A new iss	ue DD 10.04.30 v	verified:	EC 									
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3573-5		Manufactured	No	· · · · · · · · · · · · · · · · · · ·		100	Each	21.0000	1	1		1	hat ul
Adapter)[5]	108/19
				Location		Loc Qty	Lo	c Code					/ '
				GA		21				 	// /	2/	'//
				3	1863	21				/			/ //
04088-041		Manufactured	No			100	Each	3.0000	1	1	1	$\langle \cdot \rangle_{i}$	1/38/1
Shoulder Harness											6/4	210	100 11
				Location		Loc Oty	<u>Lo</u>	c Code				/	
				GA		-19					188	シコシ	T/) (K
					4794	3					100	750	
				ST267		22				/			
MS24693-S272		Purchased	No			100	Each	189.0000	4	4		. رر (100/1
Screw									~	- / - " .		17	V.01
				Location		Loc Qty	Lo	oc Code				1	/
				GA		172				rI - l	/		
					18352	172				<u> </u>			
				ST288	16201	17							
					16391 16737	11 2							,
					17977	4						P //	′ /
AN960JD10LL		Purchased	No			100	Each	3,372.0000	4	4	18	/ {	- 60
Washer		. ai ciiacca							C		4	1/	7 108
				Location		Loc Qty	Lo	oc Code				•	/ /
				ST337A		3372				,			l
					9085	212				4			
				1	9600	3160							

												DQA:	Dat	te:	
NCR:	Yes	/ No				WORK ORDER NON-C	100	NFORM	MANCE / UPI	DATE		•		-	
<u> </u>											_	QA Closed:	Dat	ie:	
Work Ord	or.					DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part I	. No					Rework Scrap Use-as-is Work Order Update	Scrap Machining Small Fab Prod. E Use-as-is Thermoforming Finishing Rec/Store/F						Water Jet d. Eng. Coor. e/Packaging Supplier		Engineering Quality Other
Root					Descri	ption of work order update	ı	Initial	Act	tion		Sign &	-		
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desci	ription		Date	Verification	n	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
							AUL	T CATE	GORY						
Landi		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio	Crimped. at n Strip in		o/s	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		Instruct Mainte Mislabe Misread	ion Incomplete ions Incomplete/I enance eled	Unclear		Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing Vrong		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
Ripples in Bend Drill Holes Offs						Offset									

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

July-27-12 9:46:38 AM

Work Order ID:

87717

Parent Item:

D412-702-315

Parent Item Name:

Harness Assembly

MS21042L3

Purchased

No

Start Date: 7/27/12

3,842.0000

tart Date: //2//12

Start Qty: 1.00

Required Date: 8/17/12

Required Ofy: 1.00

<u>Location</u>	Loc Qty	Loc Code	
316	906		
122452	906		4
ST300	936		
117885	32		
119017	725		
119075	138		
121444	41		
ST317	2000		
122141	2000		

Each

100

Nut

July-27-12 9:46:38 AM

Shop Packet Print

Page 2

											DQA:	Date	::			
NCR:	Yes	/ No				WORK ORDER NON-	WORK ORDER NON-CONFORMANCE / UPDATE									
											QA Closed:	: Date	:			
Work Ord	٥٢٠					DISPOSITION				AGAINST D	EPARTMENT	/PROCESS				
Part I	No.	,				1 <u>— 1</u>			Skid-tube Crosstube Machining Small Fab Thermoforming Finishing			Water Jet od. Eng. Coor. re/Packaging	Engineering Quality Other			
NCR	No.					Work Order Update	ٔ ل		Large Fab	Composite		Supplier				
Root						ption of work order update	1	Initial		tion	Sign &					
Cause		Date	Step	Qty		or Non-conformance	Ch	nief Eng	Desc	cription	Date	Verification	QC Inspector			
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	Tooling ator crial															
						F	AUI	T CATE	GORY							
Landi	ing (1				General] _c .			7	Г	¬-			
	-	Bending Centre N	ot Conce	ntric to ()/s	Bend BOM/Route	\vdash	Grain Hardwa	re		Ovalized Over/Unde	r tolerance	Pressure/Forced Temperature/Cure			
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorre	<u> </u>	Weld			
		Crushed/	Crimped.			Burrs		1	ions Incomplete/	/Unclear	Part Lost/N		Wrong Stock Pulled			
	<u> </u>	Cuffs				Contamination	<u> </u>	Mainte		_	Part Moved					
Heat Treat Countersink Mislabeled								Positioned								
Inspection Strip in Tube Cut Too Short						Misread Power Loss/Surge Other					Other					
Ripples in Bend Drill Holes Offset																

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3
REF TCCA STC SH04-7
REF FAA STC SR01997NY
REF EASA STC EASA.I.M.R.S.00710

UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
WORK ORDER
12/03/27

CD

10.03.18

SHOP COPY

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-343 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

NEW ISSUE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

	1121110			~!	10.03.10
REV.			DESCRIPTION	DATE	
DESIGN		P	DART AEROSPAC	CE	LTD
DRAWN		9?	HAWKESBURY, ONTARIO,		
CHECKE	D	_B	DRAWING NO.		REV. A
MFG. AP	PR.	N/A	DSI 9511	s	HEET 1 OF 6
APPROV	/ED	10	TITLE		SCALE
DE APP	₹.	#	NEW SHOULDER HARNESS K	CITS	NTS
DATE	10.03	.18	COPYRIGHT @ 2010 BY DART AERO THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON TH NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED PA WRITTEN PREMISSION FROM DART AEROSPA	E EXPRES	S CONDITION THAT IT IS

INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

Part Number	Description	Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
D412-702-301 D412-702-303	Harness Assembly Harness Assembly	D412-702-101B (IIN-D412-702) D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-307	Harness Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	P	DART AEROSPACE	LTD
DRAWN	97	HAWKESBURY, ONTARIO, CANA	
CHECKED	J.	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511 s	HEET 2 OF 6
APPROVED	10	TITLE	SCALE
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE THIS DOCUMENT IS PRIVATE AND COMPIDENTIAL AND IS SUPPLIED ON THE EXPRES NOT TO BE USED FOR ANY PURPOSE OR COMPUTALICATED TO ANY OWNER THE PERMISSION FROM DART AEROSPACE LTD. WRITTEN PERMISSION FROM DART AEROSPACE LTD.	S CONDITION THAT IT IS

414

PARTS LIST

TABLE 2

QTY	QTY	QTY	QTY	QTY	QTY	Part Number	Description
-341	-343	-345	-347	-349	-351	Fart Number	<u> </u>
x						D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
 		<u> </u>	 				Dart 5-Man 3-Point Forward Facing
	X			l		D412-702-343	Shoulder Harness Kit
		х				D412-702-345	Dart 4-Man 3-Point Aft Facing
	 -			 		5412-102-040	Shoulder Harness Kit
			Х			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
				х		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
					Х	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
1	1		1	1		D412-702-059	GROMMET KIT
9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
	4						
1*	1*		1*			D412-702-301	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-7	ADAPTER
4*	4*		4*			D4088-041 MS24693S272	SHOULDER HARNESS (NEW) SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
2	1 .		1			D412-702-303	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-8	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S272	SCREW
4*	4* 4*		4*			AN960JD10LL	WASHER
4	4"		4*			MS21042L3	NUT
1	1			1		D412-702-305	HARNESS ASSEMBLY (NEW)
1*	1*			1*		D3573-1	ADAPTER
1*	1*			1*		D4088-041	SHOULDER HARNESS (NEW)
4*	4*			4*		MS24693S273	SCREW
4*	4*			4*		AN960JD10LL	WASHER
4*	4*			4*		MS21042L3	NUT
1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
1*	1*				1*	D3573-3	ADAPTER
1*	1*				1*	D4088-041	SHOULDER HARNESS (NEW)
4*	4*				4*	MS24693S272	SCREW
4*	4*				4*	AN960JD10LL	WASHER
4*	4*				4*	MS21042L3	NUT
1	1					D412-702-309	HARNESS ASSEMBLY (NEW)
1*	1*					D3573-3	ADAPTER
1*	1*		1			D4088-041	SHOULDER HARNESS (NEW)
4*	4*					MS24693S272	SCREW
4*	4*					AN960JD10LL	WASHER
4*	4*					MS21042L3	NUT

* denotes that part is included in assembly above

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPH#RD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3 continued next page...

DEGION	1 00		<u> </u>	
DESIGN	47	DART AEROSPACE	ELTD	
DRAWN	9?	HAWKESBURY, ONTARIO, CANADA		
CHECKED	_k	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511	SHEET 3 OF 6	
APPROVED	10	TITLE	SCALE	
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS	
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD		

ST.

... continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
1		1				D412-702-311	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-1	BRACKET
1*	 	1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-313	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-2	BRACKET
1*	L	1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	SCREW
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1			1			D412-702-315	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1			1			D412-702-317	HARNESS ASSEMBLY (NEW)
1*			1*			D3573-5	ADAPTER
1*			1*			D4088-041	SHOULDER HARNESS (NEW)
4*			4*			MS24693S272	SCREW
4*			4*			AN960JD10LL	WASHER
4*			4*			MS21042L3	NUT
1		1			· ·	D412-702-321	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-3	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*				MS21042L3	NUT
1		1				D412-702-323	HARNESS ASSEMBLY (NEW)
1*		1*				D3570-4	BRACKET
1*		1*				D4088-043	SHOULDER HARNESS (NEW)
4*		4*				MS24694S50	BOLT
4*		4*				AN960JD10L	WASHER
4*		4*			1	MS21042L3	NUT

^{*} denotes that part is included in assembly above

continued next page...

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	9	DART AEROSPACE LTD			
DRAWN	97	HAWKESBURY, ONTARIO, CANADA			
CHECKED	_B	DRAWING NO.	REV. A		
MFG. APPR.	N/A	DSI 9511 s	HEET 4 OF 6		
APPROVED	140	TITLE	SCALE		
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS		
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON MITHOUT WRITTEN PERSISSION FROM DART AEROSPACE LTD.			

4140

... continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3610-041	BRACKET
2	2		-			D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4				AN4-25A	BOLT
4		4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2				L	MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
1	1			1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	12		12	4		CR3212-4-4	RIVET

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION **BRANCH** DAO # 01-O-01

DATE: ____ CERT. NO.: _ ISSUE NO.:

DESIGN	q?	DART AEROSPACE LTD		
DRAWN	93	HAWKESBURY, ONTARIO, CAN		
CHECKED		DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511	SHEET 5 OF 6	
APPROVED	10	TITLE	SCALE	
DE APPR.	-##	NEW SHOULDER HARNESS KITS	NTS	
DATE 10.0	3 12	COPYRIGHT © 2010 BY DART AEROSPACE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRE		

10.03.18

COPYRIGHT @ 2010 BY DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS

NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT

WRITTEN PERMISSION FROM DART AEROSPACE LTD.

TABLE 3

QTY -337	QTY -353	Part Number	Description
х		D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft
	x	D205-702-353	Dart 4-Man 3 Point Aft Facing Shoulder Harness Kit, for UH-1 Aircraft
1	2	D412-702-311	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
11	2	D412-702-313	HARNESS ASSEMBLY (NEW)> SEE TABLE 2
1		D412-702-321	HARNESS ASSEMBLY (NEW) -> SEE TABLE 2
1		D412-702-323	HARNESS ASSEMBLY (NEW)> SEE TABLE 2
1		D412-702-319	HARNESS ASSEMBLY (NEW)
1*		D3925-041	BRACKET
1*		D4088-043	SHOULDER HARNESS ASSEMBLY (NEW)
4*		MS24694S50	BOLT
4*		AN960JD10L	WASHER
4*		MS21042L3	NUT
	1	D3572-043	GUIDE ASSY
	1	D3572-044	GUIDE ASSY
1	 	D3920-041	SEATBELT GUIDE ASSEMBLY
2	Ì	D3920-5	SEATBELT GUIDE
1	6	AN4-16A	BOLT
1		AN4-21A	BOLT
7		AN4-25A	BOLT
18	12	AN960JD416	WASHER
9	6	MS21042L4	NUT

^{*} denotes that part is included in assembly above

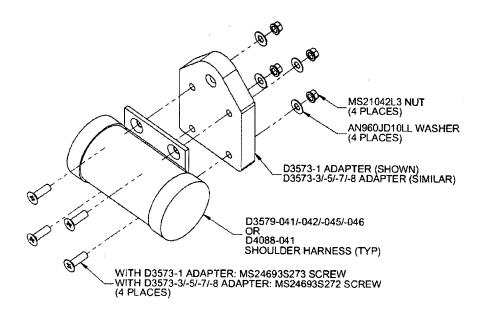
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

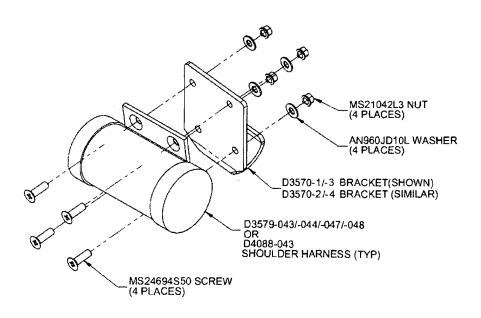
DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

DESIGN	9	DART AEROSPACE	LTD	
DRAWN	93	HAWKESBURY, ONTARIO, CANADA		
CHECKED	k	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9511	SHEET 6 OF 6	
APPROVED	149	TITLE	SCALE	
DE APPR.	-#	NEW SHOULDER HARNESS KITS	NTS	
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR CORPELD ON COMMUNICATION TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LT)		

4140



<u>DETAIL 'K' D412-702-101A/-103A/-105A/-107A/-109A/-115A/-117A AND</u> <u>D412-702-101B/-103B/-105B/-107B/-109B/-115B/-117B OR -301/-303/-305/-307/-309/-315/-317 HARNESS ASSEMBLIES</u>



DETAIL 'L' D412-702-111A/-111B/-113A/-113B OR -311/-313/-321/-323 HARNESS ASSEMBLIES

COPYRIGHT @ 2004 BY DART AEROSPACE LTD. •

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

25-00-00